

SQLDetective for Oracle

Build Your Projects More Easily

Effective Oracle Development
and Administration

SQLDetective is a powerful and easy-to-use graphical user interface to Oracle databases. It provides an integrated environment for developing database objects, writing and debugging stored programs, executing and testing SQL and PL/SQL commands, as well as searching and modifying data, and analyzing the dependencies between the objects. Visual object editors allow users to quickly create and modify database objects such as: table, view, trigger, index, job, cluster, synonym, operator, etc

depending on the features of the Oracle database versions. Syntax highlighting and code folding Code Editors with embedded Code Explorer, Code Assistant, Code Insight and integrated Oracle Documentation Browser allow the user to write procedures, functions, packages, object types, triggers and JAVA in a high quality and error free way. Object Navigator facilitates easy navigation of database structures by displaying database schema objects and their relationships in an intuitive hierarchical interface.

www.sqldetective.com



Write And Test Your Code More Quickly

SQLDetective has a range of handy utilities to run SQL scripts, test PL/SQL statements, write and execute stored programs, and debug stored objects step-by-step. SQL Editor executes SQL and PL/SQL statements supporting bind and substitute variables and SQL*Plus commands. The advanced Stored Program Editor offers an easy-to-use interface for writing and executing stored programs. The fully integrated PL/SQL Debugger offers all features that a user could wish for: step over; step into; step out; run until exception; break execution;

set conditional breakpoints; view and modify scalar and complex variables; and to debug stored procedures, functions, packages, type bodies and triggers on a database server. Format and improve the quality of PL/SQL code using *ClearSQL* - a code review and quality control tool for Oracle PL/SQL development. Rapid code-building features like Code Explorer, Code Insight, smart code completion, dot suggestion, convenient bookmarks, finding a matching pair and user templates save time, reduce errors and ensure a consistent programming style.

„SQLDetective is far ahead on value. It has all the great features at a very low price. For SQL and PL/SQL development it was an easy decision to make!“

Gary W., Systems DBA & Project Manager,
Grange Life Insurance, USA

Fully Integrated PL/SQL Debugger

Easily write, test, debug and execute server-side programs:

- Procedure, Function, Package, Package Body, Type, Type Body, Java Source, HTML code using syntax highlighting PL/SQL, JAVA and HTML Editors
- Customizable Code Assistant, Integrated Code Insight and Code Explorer and drag-and-drop eliminates errors and decreases development and test time
- Execute SQL scripts, PL/SQL subprograms, stored programs and SQL*Plus commands over multiple concurrent database sessions quickly with the multi-threaded SQL Editor
- Debug stored programs step-by-step over multiple concurrent database sessions easily with PL/SQL Debugger
- View the execution plan of SQL statements hierarchically in the database with the Explain Plan feature
- Format and improve the quality of PL/SQL code using a code review and quality control tool for Oracle PL/SQL development - *ClearSQL* for *SQLDetective*
- Learn more about Oracle databases and find answers to any database related question, using the Oracle Documentation Browser, without leaving your IDE

Visual Object Editors

Quickly develop any type of the following database objects using visual object editors:

- **Tables** - relational, object, index-organized, partitioned (range, hash, composite, list), temporary, clustered, external and XML
 - *Table (view) columns – built-in (Char, Varchar2, Number, Date, Interval, etc.), LOB (BLOB, CLOB, NCLOB, BFILE), user defined (Object type, Nested table, Varray, REF) and XMLType*
 - *Integrity constraints - primary key, unique key, foreign key, check*
- **Views** – standard, object and XML
- **Triggers** – table, view, schema, database
- **Indexes** – non-unique, unique, bitmap, clustered, joined, partitioned, functional
- **Clusters** – index and hash organized
- **Collections, Sequences, Jobs, Policy, Index types, Operators, Libraries, Database Links, Synonyms, Contexts, Directories, Profiles and more...**

Manage Schemas And Databases Objects

Smart manage schemas and database objects using such tools as:

- **Compare Databases** - compares and displays the differences graphically and generates a synchronization script for: two different databases; one or more schemas in the same or different databases; or one or more objects in the same or different databases
- **Schema Extractor** - extract schema objects into SQL scripts (DDL)
- **Schema Compiler** - compile invalid database objects and select engines and compilation object types
- **Schema Analyzer** - collects statistics, validates structures and lists chained rows of tables, table partitions and sub-partitions, indexes, index partitions and sub-partitions and clusters
- **Fast Copier** - copy objects and data between Oracle databases and schemas
- **Find Objects** - in the Oracle Database or Repository matching search criteria
- **Report Generator** - create reports in HTML format, based on database objects, table and view data, user privileges, roles, etc.

Browse, Modify, Search, Sort, Export and Import Data

Conveniently browse, modify, search, sort, export and import any type of data:

- Insert, edit, and delete records quickly with visual access to information in tables and views using Smart Dataset
- Execute complex queries over multiple concurrent database sessions and view result sets instantly, supporting bind and substitute variables with SQL Editor
- Browse, search, sort and group data without having to write a query, using the QBE (query by example) interface to data in the Dataset Editors
- Build complex datasets without writing a query, using the Dataset Builder
- Analyze and modify dependencies between data, based on integrity constraints, using a powerful master-detail browser provided by Data Dependency Analyzer
- Represent the server data model and create, on its basis, a query of any given complexity in the graphical Query Builder
- View, insert and modify complex data types such as: BLOB, CLOB, NCLOB, BFILE, Object Type, Nested Table, Varray, XML and REF in the powerful Visual Filed Editor
- Export and import scalar and complex types of data into a number of popular formats like SQL INSERT Script, SQL MERGE Script, Microsoft Excel, MS Access, XML, PDF, HTML, Character Delimited, etc.



Take control of your Oracle database applications with *SQLDetective!*

Database Administration And Monitoring

Simpler administration and monitoring of databases using such tools as:

- **Session Navigator** - manages sessions in the database instance the user is currently connected to, and displays different session information
- **Storage Manager** - manages tablespaces, data files, segments & quotes
- **Database Monitor** - monitors real-time database performance and displays information such as: Logical, Physical & Disk I/O, Event Waits, Host CPU usage, and many others in charts. Provides also historical monitoring information
- **Top Session Locator** - locates the most resource consuming sessions in the database using different parameters such as: CPU, Logical I/O, Physical I/O, User I/O, System I/O, etc.
- **Database Examiner** - provides easy access to database information such as: database system; instance options; initialization and NLS parameters; system events and statistics; SGA memory allocation, etc.
- **TKProf Shell** - a utility that greatly simplifies the usage of the Oracle command line utility TKPROF by providing the user with a graphical interface to all of its parameters and options from within the application
- **Tablespace Wizard** - a powerful Oracle database version-dependent graphic interface that offers controls for viewing, creating and modifying tablespaces

Manage Your Data More Smartly

SQLDetective is a complete environment for handling data. Smart Dataset allows users to quickly browse, search, modify, analyze and export scalar, object table, collection, REF and LOB types of data. The powerful Dataset Builder allows users to create complex datasets without having to write a query. The Data

Dependency Analyzer provides a graphic environment to represent and modify the referring data based on integrity constraints. The graphical Query Builder allows users to represent the server data model and to create, on its basis, a query of any given complexity.

ClearSQL for SQLDetective, is a code analyzer, not a simple code formatter!

PL/SQL - Analyze, Format, Illustrate, Fix and Run it

The optional plugin **ClearSQL for SQLDetective** is a code review and quality control tool for Oracle PL/SQL development, built around a code analyzing technology. It improves the quality of PL/SQL code while increasing the productivity of the software team; instantly formats the PL/SQL code to a set of code conventions that improve the readability of the software, allowing engineers to understand a new or legacy PL/SQL code more quickly and thoroughly; analyses PL/SQL code for its structure and architecture and generates a series of industry standard quality control metrics that identify possible error prone procedures based on complexity, size,

modularity and keeps the code reliable, test- and manageable. *ClearSQL* for Oracle takes a package or a stand-alone subroutine and makes a set of clickable flowchart diagrams that visualize the code execution path, and creates clickable Call Tree diagrams that are perfect aid to reading and understanding the data flow of legacy code. Such diagrams show the conditional branches, loops and jumps, thereby helping to understand the opaque logic. The visual patterns help to find the points of possible code refactoring or module restructuring, and make the reasons for high values of Cyclomatic Complexity metrics obvious.

Quotes From Our Users



„We moved from a more expensive tool to SQLDetective, because it provides all we need at a much lower price. Very feature rich, easy to use and stable as well.“

Ulrich V., Consultant Database Development
Unisys AG, Switzerland

„We evaluated a number of products in this space and SQLDetective was the clear leader. The functionality was a perfect fit and the price made it easy to roll out across the Company.“

Mark O'Brien, Head of Technical Services
Cognotec Limited, Dublin, Ireland

„We use SQLDetective with our 30 developers, because of its powerful set of tools, ease of use and leading price performance. Very stable product and prompt support!“

Janne N., Technology Manager
Softera TTM-Tieto Ltd., Finland

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software solutions
CONQUEST

SQLDetective - FAQ

Who is a typical user of SQLDetective?

- PL/SQL developers who develop, modify, maintain or support database objects based on SQL or PL/SQL code; e.g. tables, procedures, triggers, functions, and more...
- Oracle DBAs who manage one or more Oracle databases and need important real time or statistical information to keep them running
- Oracle DBAs who need to view, examine, monitor or analyze the content, the structure or the “production” status of an Oracle database
- Oracle DBAs or PL/SQL developers who browse, search, modify, sort, import or export data to/from an Oracle database

What makes SQLDetective unique in the market?

- A large set of features that are required on a daily basis, that are stable and easy to use, make SQLDetective a very powerful PL/SQL development tool in the Oracle database tools market
- OSD ~ ONLINE SUPPORT DESK
 - Allows direct communication with Conquest’s Technical Support
 - Provides a very easy and fast way to update/upgrade any SQLDetective installation with just a few clicks
- IDIC ~ ICON DICTIONARY
 - Helps new users explore, discover and quickly learn how to use SQLDetective. 60+ tutorial movies are provided, that are easy to select and view - on demand - using the integrated Movie Navigator
 - IDICs “education mode” offers a unique solution to learn more about the 230+ toolbar buttons (features & functions) without risking any damage to a database by avoiding the usual dangerous “trial and error” method
- SCENE
 - In complex projects, developers deal with many different PL/SQL based database objects at the same time. With SCENE, developers can save any Object Navigator workspace, including loaded objects, applied filters and sort criteria and open/load them again with just a single click
 - This feature provides quick access to frequently used groups of database objects. Multiple scenes can be opened at the same time

How is SQLDetective positioned?

- As the most powerful and best priced alternative to the leading competitors
- Our worldwide users and other independent experts consider SQLDetective to be the leader in price performance in its market. (feature richness & price)
- “Concurrent user” as our license policy provides great flexibility to our users